Tracks containing descriptive or instructional introductory comments are indicated in italics.

| Track number (time) | | Track title |
|---|---|---|
| Descriptive | Demonstration | |
| 1 (0.37) | | Calibration using a sound level meter |
| 2 (0.36) | | Calibration tone at 1 kHz, 70 dB, 15 sec |
| 3 (0.19) | | Calibration using conversational speech |
| 4 (1.22) | | About this audio demonstration compact disc |
| 5 (0.22) | 6 (0.48) | Pitch: Low-pitched (musical) sounds |
| 7 (0.12) | 8 (1.06) | Pitch: High-pitched (musical) sounds |
| 9 (0.43) | 10 (0.16) | Frequency: Pure tone (middle C) |
| 11 (0.51) | 12 (0.43) | Complex tones: triangle, square, sawtooth waveforms (middle C) |
| 13 (0.27) | 14 (1.51) | Frequency analysis of a complex tone (piano, middle C) |
| 15 (1.01) | 16 (1.52) | Broadband (music) sound in octave bands |
| 17 (0.40) | 18 (1.25) | Industrial blower* sound in octave bands |
| 19 (0.28) | 20 (1.20) | Water knife* sound in octave bands |
| 21 (0.16) | 22 (1.03) | Supercomputer* sound in octave bands |
| 23 (0.22) | 24 (0.55) | Broadband vs. tonal sounds: jet aircraft takeoff and landing |
| 25 (0.18) | 26 (1.52) | Industrial sounds* containing broadband and tonal components |
| 27 (0.46) | 28 (0.38) | Loudness: 1 kHz tone in 10 dB steps from 45 to 85 dB |
| 29 (0.21) | 30 (0.39) | Loudness: Pink noise in 10 dB steps from 45 to 85 dB(A) |
| 31 (0.41) | 32 (2.51) | Hearing sensitivity vs. frequency and level |
| 33 (0.50) | 34 (2.09) | A-weighting: Jet aircraft takeoff and landing |
| 35 (0.16) | 36 (1.25) | A-weighting: Industrial sounds* |

| Track number (time) | | Track title |
|---|---|---|
| Descriptive | Demonstration | |
| 37 (0.37) | 38 (1.59) | Levels of typical sounds: 50 dB(A) - 85 dB(A) |
| 39 (0.33) | 40 (1.20) | Audiometric tones: 500 Hz - 8000 Hz at 60 dB |
| 41 (0.45) | 42 (1.23) | Progressive conductive hearing loss: filtered speech |
| 43 (0.31) | 44 (2.23) | Progressive sensori-neural hearing loss: filtered speech |
| ~~45 (0.24)~~ | ~~46 (4.58)~~ | ~~Progressive sensori-neural hearing loss: filtered music~~ |
| 47 (0.17) | 48 (3.09) | Hearing protector fitting: broadband noise at 85 dB(A) |
| 49 (0.14) | 50-65 (11.47) | Sounds of NASA Glenn Research Center* Emission spectrometer; letter-cutting machine; steam plant; process air plant startup sequence; Engine Components Research Laboratory; Mach .3 Burner Rig room; Mach .3 Burner Rig air startup; Mach .3 Burner Rig flame test; rocket test; wind tunnel startup sequence; turret punch; brake press; riveting; air chisel; grinder |

Total playing time 62.45 minutes. Suggested classroom lesson 47.18 minutes (tracks 1- 46 only)

*Recorded by Michael Bishop and Scott Burgess, Telarc International Corporation

Voice talent: Ann Candler Harlan and David M. Harlan

* Tracks 45 and 46 have been removed from this reprinted version of *Auditory Demonstrations in Acoustics and Hearing Conservation*. Several updated demonstrations of music listening with simulated hearing loss may be found on *Auditory Demonstrations II: Challenges to Speech Communication and Music Listening*. To request a free copy, visit the Acoustical Testing Laboratory website at http://acousticaltest.grc.nasa.gov.